

UNITED STATES PATENT APPLICATION

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**FOR: SYSTEM FOR ELECTRONIC BARTER, TRADING AND
REDEEMING POINTS ACCUMULATED IN FREQUENT USE
REWARD PROGRAMS**

CROSS-REFERENCE TO OTHER APPLICATIONS

This application is based on and claims filing priority
of co-pending U.S. provisional patent application serial
5 number 60/140,603, filed on June 23, 1999.

BACKGROUND OF THE INVENTION

The present invention relates to electronic
10 bartering systems that allow users to trade or redeem reward
points, such as those already accumulated in airline frequent
flyer programs, into an account for redeeming products and
services offered over the Internet. This would allow users to
use their frequent flyer (or frequent car rental, frequent
15 dining, etc.) points for products or services other than those
typically offered by the point sponsor. The points would be
sold back to the airline (or other type of issuing entity).
The system would also allow for purchase by users of points
traded in by other users, such that points are redistributed
20 without incurring a transaction directly with the airline or
other issuing entity. The system also allows for
manufacturers and producers of goods to put overstocked or
discontinued, end of run products into a liquidation process
that can be exchanged for points.

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In order to attract and retain business customers,
airlines, hotels, car rental companies, chain retailers,
telecom providers, etc. have historically introduced frequent
use programs that offer awards of "frequent flyer miles" or
30 other such incentives schemes based on the distance traveled

or use by that customer. Competition has forced airlines to modify the manner in which mileage was acquired to include travel related purchases by consumers. For example, the dollar-based cost of a ticket purchased may be awarded as mileage to a client account. Within the past several years, credit card companies or other retailers and etailers have co-branded credit cards in the name of the airlines and the credit card company where each dollar spent using the card is recorded as a mile of travel or point in the award program.

5 These cards may additionally award bonus miles in coordination with user purchases of preferred products or flights during preferred times.

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U.S. Patent No. 5,774,870, FULLY INTEGRATED, ON-LINE INTERACTIVE FREQUENCY AND AWARD REDEMPTION PROGRAM, issued to Netcentives, Inc. on June 30, 1998. The '870 patent provides a system whereby the user can make purchase of products over the Internet and receive award points, which are stored in an associated database. The user can subsequently view an award catalog to determine which awards he may be able to redeem based on the number of points in his account. This patent does not teach, however, the ability of a user to trade-in his points accumulated in a pre-existing frequent flyer account in order to make purchases of products from the award catalog or allow the points to be pooled with other programs in order to gain further purchasing power.

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The ClickRewards program site appears to operate in the same fashion as that described in the '870 patent; i.e. it allows users to gain points (called "ClickMiles") for making an

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online purchase of a product through an associated web site. For example, ClickMiles may be awarded for a purchase of Gap products at the Gap web site. The ClickMiles can ultimately be redeemed for frequent flyer miles, for example at one of 5 several major airlines. Another web site, www.webflyer.com, is associated with ClickRewards and provides ClickMiles for purchasing frequent flyer-related goods, such as guidebooks.

10 The ClickMiles Reward Catalog allows the user to redeem the ClickMiles for merchandise in the alternative to frequent flyer miles. For example, a CD can be obtained from CDNow by redeeming 900 ClickMiles.

15 Although the ClickRewards program allows a user to redeem accumulated points for obtaining merchandise over the Internet, it does not allow for the redemption of frequent 20 flyer miles from a pre-existing account to be traded for reward points.

25 U.S. Patent No. 5,794,210, ATTENTION BROKERAGE, issued on August 11, 1998 to CyberGold, Inc. The '210 patent describes a system that makes immediate payment to a user for paying attention to an advertisement or other "negatively priced" information distributed over the Internet. A special icon or other symbol displayed on a computer screen may 30 represent compensation and allow users to choose whether they will view an ad or other negatively priced information and receive associated compensation. The points accumulated can then be used to purchase "positively priced information" or products.

5 The CyberGold web site, www.cybergold.com, describes an "earn and spend" community in which users earn "cash" online, for example by visiting a portal site. The earnings can then be used to make online purchases, such as software.

10 Again, although the '210 patent and the CyberGold web site describe an incentive system that allows users to purchase products or services over the Internet, neither teaches the ability of the redeeming frequent flyer miles from a pre-existing account for reward points.

15 U.S. Patent No. 5,025,372, SYSTEM AND METHOD FOR ADMINISTRATION OF INCENTIVE AWARD PROGRAM THROUGH USE OF CREDIT, issued on June 18, 1991 to Meridian Enterprises, Inc. The '372 patent describes an incentive award program in which credit is awarded to participants based on the participant meeting a designated level of performance under the system. This patent does not teach the ability to increase the reward 20 points in a user's account by redeeming points from a pre-existing account such as a frequent flyer mileage program.

25 With regard to Figure 1, a model of the frequent flyer systems of the prior art is presented. Two different airlines servers are shown surrounded by their related marketing partners. In order to lure more business travelers, the airlines have established marketing agreements with travel related companies to provide the business traveler with a more robust way to generate rewards in the form of frequent flyer 30 miles. These marketing arrangements or associations have

typically involved credit card companies, phone companies, hotel chains and car rental companies. Any purchases made through these "co-branded" partners were then awarded to the user periodically. Bonus miles or points may additionally be

5 accumulated based on the user's actions in response to offers made by the airline or in coordination with the partner company. For example, phone companies offer bonus miles to users based on the user's agreement to change phone service. These points are obtained by the partner companies by

10 purchasing them from the issuing entity for redistribution as an incentive to utilize their particular goods and/or services. Figure 2 shows some sample co-branded cards that are representative of marketing agreements between TWA, Sprint, and Mastercard. In order to receive these benefits,

15 the user must sign up with each of the partner companies separately and provide the frequent flyer account number that is to receive the credited miles. A user either making phone calls or purchases in accordance with the agreements made with each of these partners will first accumulate a value on the

20 partner's system which in turn is periodically updated on the airline server to reflect the value earned during that period. Figure 3 is representative of a typical user account that shows various earnings in the system transferred in from any of the co-branded partners. The records of the table in

25 Figure 3 identify the source of the rewards, the dates they were recorded and the number of miles associated with that transaction. The user can view the accumulated miles by accessing the airline server or by tracking the individual value reported to the user through the various bills the user

30 receives from each of the co-branded partners.

5 The prior art does not provide for a consumer to utilize relatively small amounts of reward points in any manner. In addition, a consumer often can only redeem points in an airline-related manner (i.e. to obtain a free ticket or upgrade from coach to first class). This prior art does not recognize the need for a consumer to exchange reward points for non-travel related goods, and in particular renders relatively small numbers of points useless. For example, a 10 consumer that does not travel often may have 500 points in United Airlines, 700 points in USAir, and 1000 points in TWA, each of which is relatively useless in the prior art.

15 What is desired therefore, is a system where users may submit frequent flyer awards or credits accumulated for other types of transactions for redemption or translation into a form readily acceptable by a participating merchant. An exchange rate will be established for the relative consideration received by the companies involved in the 20 transaction. A user should be able to pool the various earned rewards that may exist in currently separate server systems where the resulting combined value may be used by a user of the system to acquire items of equivalent value. In another embodiment, the award program looking to reduce frequent flyer 25 liabilities may contact users and arrange for a transfer of the reward miles into a value (which may be predetermined) to be credited to the trading system reward. Alternatively, the points may be bid for in an auction environment where points may be used to bid for certain awards. A user who has earned 30 frequent flyer miles or rewards on several sites insufficient

5 to receive any direct value for their mileage may be able to
pool the miles acquired from several different air carriers to
transfer the awards accumulated to the system of this
invention. The user may have the selected items delivered to
the user by performing a purchase request by various means
such as over the Internet, dialing a toll free number for
placing an order, or any other means of placing an order that
will accept payment from this system.

SUMMARY OF THE INVENTION

10 This invention allows a user to purchase goods or
services using accumulated award points held by a variety of
award programs. A frequent flyer program is typical of the
systems to be encompassed by this invention. Tie-in
15 promotions have been introduced over the past several years
that have allowed purchases for goods and services such as
hotel or car rentals to accumulate award miles that are then
recorded on the airline award system. More recently credit
20 card companies offer cards where a mile award is made for
every dollar spent using that credit card. These cards may
additionally award bonus miles in coordination with user
purchases of preferred products.

25 A system and method are disclosed where the system
allows the user to redeem the accumulated reward points from a
plurality of reward entities for exchange with a merchant.
The user requests process for redemption of the pre-
30 accumulated reward points comprises the steps of the user

requesting, via a user computer, a trading server computer to obtain reward points from a reward server associated with a rewarding entity with which the user has reward points. The reward server computer decreases the users reward account by 5 the requested number of reward points. The reward server computer conveys consideration to the trading server computer, where the consideration corresponds to the number of reward points decreased in the account of the reward server. The trading server computer increases the reward exchange account 10 on the trading server associated with the user by the requested number of points. The trading server receives the consideration from the reward server computer. Following or anticipating this conversion into the trading server, the user requests a purchase of an item from an associated merchant 15 computer by selecting the item to be purchased from a plurality of available items. The trading server computer confirms that the user's reward exchange account contains sufficient points to purchase the selected item. The user may purchase additional points in the event that his account does 20 not contain the requisite number of points for making the purchase transaction. The trading server computer requests the merchant computer to deliver the item to the user. The trading server decreases the user exchange account by the number of points corresponding to the purchased item and the 25 trading server computer conveys consideration to the merchant computer equivalent to the required points. In another embodiment, the user may redeem rewards at the reward server following the selection of an item to be acquired. Policies may be established to automatically contact each of the reward 30 servers according to a user procurement profile to transact

the required payment. This profile may indicate the order of redemption and method of providing funds sufficient to cover the purchase after redeemable points are exhausted. After redemption the consideration is transferred to the respective merchant.

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BRIEF DESCRIPTION OF THE DRAWING

10 Figure 1 is representative of the prior art marketing arrangements used in reward programs;

Figure 2 is a representation of the co-branded partners in a prior art award program;

Figure 3. is a sample of the prior art reward summary from an airline frequent flyer system;

15 Figure 4 is a block diagram of the components of the present invention;

Figure 5 is a block diagram of the system components of the present invention;

20 Figure 6 is a data flow diagram of the process for a user to redeem rewards;

Figure 7 is a data flow diagram of the user request for purchase of an item at a merchant site;

Figure 8 is a data flow diagram of the user account creation process on the trading server;

25 Figure 9 is a data flow diagram of the offer process by a reward program or by a merchant;

Figure 10 is a data flow diagram of the process where a user may be redirected from a reward program to the trading server of the present invention.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference to Figure 4, a plurality of reward server computers 10, 12, 14, a trading server 20, a merchant computer 30 and a user computer 40 are shown in communication with a network 40. The network may comprise any type of communication process where computers may contact each other. The present invention will be described with respect to an Internet-based network where the reward server computer 10 is associated with an airline frequent flyer program. Any type of reward server may also be used in this system. The reward server computer may be a credit card reward program such as offered by American Express where the user earns rewards based on purchases or an advertising based award program where the user earns rewards by selecting advertising content.

A user of this system may acquire and accumulate rewards through any prior art means such as shown on Figure 1, which are then posted in a user's reward account 52 that is accessible through the reward server computer 10. The trading server computer 20 is in communication through the network 2 with a user on a user computer 40 and is additionally able to connect to the reward server computers 10, 12, 14 through the network 2 in accordance with techniques well known in the art for Internet communications. The merchant computer 30 is representative of any site that can communicate with the network that has goods or services for sale or trade. The merchant may have a direct relationship with the trading server where the direct relationship allows for a streamlined

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process for allowing a user to acquire products offered via the merchant computer. Alternatively, the merchant computer may be an independent merchant that does not currently have a profile defined in the trading server that will accept payment 5 from another computer system in any one of well known e-commerce embodiments.

The rewarding entities may be any type of entity that has a service for allocating points or consideration for 10 user actions. The reward server computers 10, 12, 14 may be of any type of accessible server capable of holding data about a user along with a corresponding earned value that is negotiable for other goods, services, or points of another 15 system. In the preferred embodiment, the airline reward server computer 10 may refer to one or several different airlines that have frequent flyer programs or the like. The credit card reward server computer 12 may refer to any type and number of credit card server systems capable of holding, increasing or decreasing a user's earned rewards acquired 20 according to the terms of the credit card program to which the user has enrolled. The marketing reward server computer 14 may refer to one or a multitude of network accessible marketing systems that allow a user to have an account where 25 points or other redeemable value may be stored, updated and redeemed by a user. The trading server computer may be any type of computer system that allows users to access the system in order to perform the processes involved in this invention. In the preferred embodiment all of the systems described are accessible through the Internet and the user may freely 30 navigate to any site by means well known in the art.

5 The present invention allows issuers who originally sold reward points in their program for use as an incentive by third parties to repurchase points at a substantial discount, thereby reducing their liability and allowing for a trading strategy that enables points to continually be sold and repurchased. This may be a separate accounting procedure than what is used for points that are granted.

10 The method of allowing the user to redeem the accumulated reward points from one or more of a plurality of reward entities will now be described with respect to Figure 4 and the data flow diagram of Figure 6. The trading server system would allow users to "log in" to access the 15 functionality provided where the user may interact with applications, forms or controls. For example, the user may view his account information by using a web browser to enter the appropriate identification information and then select buttons, links or other selectable objects to navigate to the 20 part of the system desired. The user, from the user computer, makes a request to the trading server computer 20 at step 102, requesting redemption through the network 2 for a portion of the pre-accumulated reward points stored for the user in one of the rewarding entities. A user reward account 52 is 25 associated with each of the reward servers but is only shown in Figure 4 connected to the airline server for sake of clarity. The user may interactively select rewards to be redeemed, or the system may determine which rewards are to be redeemed based on a previously defined user profile rule. The 30 trading server computer 20 "obtains" the reward points from a

reward server 10, 12, 14 stored in the user's account 52 by contacting the appropriate reward server at step 110 according to the user's requirements, by using the connection parameters as defined in a database 54 on the trading server as shown in 5 Figure 5. In one embodiment, the trading server retrieves reward account balance information at step 114 from the reward server for the user. In another embodiment, the trading server transfers as part of the communication 110, the requested reward mileage to be redeemed. The reward server 10 computer 10 decreases the users reward account 52 by the requested number of reward points. The term point is used to reference any earned value that has a cash equivalent or negotiable worth as in "frequent flyer" point or mile. The reward server computer 10 conveys consideration to the trading 15 server computer 20 where the consideration corresponds to the number of reward points decreased in the user's account 52 on the reward server 10. For example, the consideration may be in the form of a monetary credit to an account that exists between the trading server and the reward server, that gets paid at the end of a predefined billing cycle (i.e. every 20 month). The trading server computer 20 increases the reward exchange account 54 associated with the user by the received number of points. The trading server computer 20 in turn, receives the consideration from the reward server computer 10.

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In the second part of the transaction (see Figure 7), the user from a user computer 40 may make a request 150 to purchase an item from an associated merchant computer 30. In the preferred embodiment, the merchant computer system will be 30 a networked computer system accessible via the Internet. The

user would visit the site by selecting on a link from the trading server's web site or by entering the name or address of the destination site. The user may identify one or many items to be acquired from one or several merchants 30. The trading server computer 20 would confirm that the user has sufficient points to purchase the selected item by checking the user's reward exchange account 54. The trading server computer 20 would request the merchant computer to deliver the item to the user. The user delivery information may be retrieved from the trading server computer 20 or may be supplied in some other manner. The trading server computer 20 would decrease the user exchange account 54 by the number of points corresponding to the purchased item. The trading server computer 20 conveys consideration to the merchant computer 30 equivalent to the cost of the item by means well known in the art of electronic commerce (eg. by a preexisting account, credit card, etc.) In the alternative, the consideration may be a direct transfer of points to an account associated with the merchant.

Policies and profiles may be established to automatically contact each of the reward servers according to a user redemption profile (see Figure 5) to transact the required payment for an item selected by a user. This profile may indicate the order of redemption and method of providing funds sufficient to cover the purchase after redeemable points are exhausted. For example, if a user has a preferred air carrier where the user would like to retain mileage in that reward system, the user may specify a priority of use indicating the reward resources that should be exhausted prior

to accessing the most desirable rewards. Following the selection of an item to be acquired, the server may contact all of the reward resources according to this profile to selectively redeem each as required to meet the purchase price. The process may be performed in real time or as a background process where the user may select how the transaction should proceed. If the user exhausts lower personal worth resources from the reward servers, the system may be required to contact the user before the transaction is allowed to proceed to redeem points. A classification system may also be used to indicate rewards of similar worth. If for instance, a frequent flyer program supports multiple classifications of miles that may be redeemed differently, the user may optionally define how those resources should be managed during redemption. The redemption process would then honor those rules elected by the user to select from several different reward programs instead of redeeming rewards strictly on a value required from the first reward program contacted.

Figure 8 describes the process steps involved in enrolling a user to utilize the trader server. The data entered by the user may be used in determining whether a user allows unsolicited offers to be presented from the trading server. The user's preferences for manufactured goods services, products, travel destinations, hobbies, interests or any other user entered criteria may be stored in the database for subsequent use by the system. The trading server has the ability to receive offers from reward servers or merchants

which may then be directed to users based on the database profile information provided by the user (see Figure 9).

5 The trading server may also be contacted in response to a button or hyperlink located on a web page accessible by the user from the airline reward server. In a similar manner, hyperlinks or calling routines may allow a user to access a reservations system or merchant from the trading server. The link would direct the user to partner or associated air
10 carriers where the points in a user exchange account on the trading server 20 may be used to acquire reduced fare flights.

15 The system used to implement the aforementioned method will now be disclosed with respect to Figure 5. The system is comprised of a trading server computer connected to a network of computers where a user interface is established whereby a user from a user computer may access the server to request the transaction to contact a reward server computer system. In the preferred embodiment, the server has memory
20 means for storing the user account information, user profiles and rules specified by the user, system, or merchant. The trading server also has communications means to allow users to access the server and to allow the trading server to contact reward servers and processing means to interpret the rules and
25 coordinate the contact to the respective reward servers. The processing means is adapted to allow the user to request and exchange consideration for rewards from reward servers. The processing means additionally is adapted to coordinate the exchange of consideration and increase or decrease the user

exchange accounts stored in memory in response to actions performed by the user computer, reward server and merchants.

5 In the preferred embodiment, the memory means comprises a database structure that is used to record the transactions associated with the previously described method. Records indicating the changes and current value of user exchange accounts are updated according to the request processed by the processor.

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In response to a request for redemption, the trading server looks up the contact properties of the reward server to be contacted. The user information is submitted to the reward server to display the available points that may be redeemed. 15 In another embodiment, the request additionally contains a value to be redeemed. The processor establishes a communication link with the reward server and a transaction request is sent to the processor of the reward server. The processor of the reward server may perform actions that may 20 allow or refuse the requested action. In another embodiment, the trading server processor may be granted direct authorization to modify the user's records in the reward server database without analysis by the processor of the reward server. A conversion rate may be applied to the 25 transaction such that the reward server reduces the available rewards in the user's account. The reward server then transfers consideration to the trading server that corresponds to the value reduced in the reward system. In response to the receipt of the transfer or approval of the transfer, the 30 trading server increments the user account balance to reflect

the received consideration and the connection to the reward server is dropped. A transaction log may be used to record each of the transactions in case a reconciliation process is required at a later time. The increase in the user's exchange account may then be stored until a user finds an item to be purchased.

The user selects the desired object from the merchants by indicating the type of product or service to be procured. In one embodiment, the trading server contacts the merchant server to return to the user a list of products that match the user's search criteria or if the user had specified in detail what was desired, the product may be directly acquired from a merchant. A communication link is established between the trading server and the merchant computer or designee for e-commerce. Direct acquisition may be enacted by contacting the merchant computer and supplying the user indicia, the product indicia, and the redemption value sufficient to secure the transaction. In response to the transaction request, the merchant computer will receive the consideration supplied and contract for the delivery of the product. In another embodiment, the consideration required for the item selected is sent to the trading server where based on the available points in the user's exchange account the trading server will determine whether the consideration is available. An authorization process may be incorporated at this point to request authorization from the user or in a more simplified process, the consideration will be transferred to the merchant computer and the user's exchange account will be

reduced. The merchant computer will receive the consideration and will effectuate a delivery transaction to be issued.

5 The goods may also be placed under direct control of a distribution arm of the trading service so that the user places the order with the trading service directly and the merchants are not directly involved with the sale of the goods.

10 Thus, the present invention provides a liability management system for issuers of reward points, which allows them to take points off the books and eliminate them, if desired, at a discount rate. This system enables the sale or repurchase of points with a trading strategy in which points 15 need not expire.

15 The present system may be implemented by means of a smart card wherein frequent use points may be accumulated on the user's card every time the card is used for associated application. For example, if a user uses his smart card to pay for a hotel that normally gives reward points, those reward points may be stored on the smart card. Likewise, when the card is used for the purchase of an airline ticket, the points would be added to the smart card. The user may then 20 redeem the accumulated reward points by inserting the card into a vendor associated with a computer connected to the Internet. The trading process proceeds as described above, except that the points are obtained directly from the smart 25 rather than a reward server.

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The user may have a credit card, debit card, or stored value card that is linked to their points account in such a way as to permit them to pay for purchases with a merchant by using the card, wherein the merchant uses the 5 existing credit card payment infrastructure as if payment were being made/authorized by a bank linked to the credit card or debit card account, but in fact the card is linked to the user's points account. In this manner, the user and merchant can use the points account to pay for purchases in a seamless 10 manner whereby points are used for consideration rather than or as a supplement to cash and traditional credit.

Other aspects of this invention will now be disclosed that will enhance the reader's understanding of the 15 application of this invention.

The user can purchase points from the system, borrow points from the system, etc., and basically treat the points as cash consideration for purposes of such transactions.

20 The system can prioritize the order of points being traded based on a predetermined set of rules such as in higher value points being issued before those with a lower value.

25 Merchandisers also benefit from the use of this system where another marketing channel is afforded for products that are often purchased by frequent travelers with high disposable income. Products and services encompassing jewelry, flowers, limousine transport, timeshare rental may be 30 exchangeable for points stored in this system. Items purchased

through the system may also be paid for by a combination of points and currency which might be the case when a user does not have enough accrued points to meet the purchase consideration of an item selected.

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It is anticipated that high quality limited access products may benefit from the distribution methods afforded by this system. For example, companies like DeBeers and Chanel may take advantage of this distribution means without impacting the level of quality or excellence associated with their products.

10 Manufacturers can discount or liquidate goods for points in a manner that doesn't negatively affect the perceived value of the goods (i.e. not in direct competition with the mainstream sales). That is, the manufacturer can place overstocked, end of run type goods and the like, place them in the chain of distribution for exchange with points, and not be in direct competition with cash sales of its 15 mainstream products.

20 Resort destinations that are managed by property management companies such as RCI may be integrated into this system where instead of trading accommodations with only those having similar property, it is now possible that the rental of 25 the property may be achieved by conversion for points.

30 Offers may be distributed to users of this system where substantial rebates or reduced rates are described in the offer. Time sensitive product offerings can also be

5 accommodated in the system where the value of the product is decreased according to a life span of the product. Time sensitive product offerings such as food products or concert tickets can have an associated diminishing or escalating value based on the length of the offer.

10 Using this system it is now possible to coordinate the products of several different providers into one package. A user of this system may therefore select an airline, hotel, car rental and Broadway show tickets in New York, individually or in a prepared package from one location by trading points where the package may not have existed before where the trading system coordinates all aspect of the transaction and reduces the user's exchange rewards in a corresponding manner.

15 Other purchasing leverage not specifically addressed previously may also be acquired by combining the power of a pool of high profile users of this system where these users may be allocated access to products or services not generally 20 distributed to the remainder of the system users. Points collected in the system by these users may afford them access to limited distribution channels where higher discount levels or premium luxury products may be acquired. Direct access to cartel products such as diamonds, duty free items and other 25 restricted access product or service offerings are also accommodated through the coordination of the trading server with these specialized service and product providers. For example, a preferred client distribution channel such as found in a European market for luxury goods would be made available 30 to users of this system where the prices for the objects in

5 this preferred channel may be significantly lower than retail for objects that are typically reserved for limited distribution at premium prices. The trading server may additionally have exclusive rights to allocate access to
10 certain premium products, services, events, travel destinations or accommodations in accordance with any right or grant permitting such allocation to any user of the system. A distribution channel may make available exclusive products for all or a limited amount of the members of the system where the
15 trading server system controls access to the offer.

15 Parameters associated with the available quantity, duration, exchange rates, etc may be input into the system to be used in the allocation algorithm to restrict the offer. Upon user access, the trading server would, in these cases, modify the premiums offered to reflect the immediately attainable items for the current user and may additionally display or provide access to premiums that may be acquired through payment by other means (i.e. cash, charge, debit) to make up the difference between the user's available points and the points
20 required to accept the offer.

25 In another embodiment of this invention, airlines seeking to provide higher levels of personalized service for their business travelers will provide access to the Internet or access to in-flight services such as video games, for a fee or in place of granting mileage rewards on transcontinental or transatlantic flights. Access to video games may be afforded to the traveler where the availability of different games depends on the number of reward points traded in by the
30 traveler. The rewards may be converted using the trading

server of this invention, where the user may opt to forego collecting mileage in return for accessing on-board entertainment provided in a standalone mode or in a linked mode. For example, users may select to play video games, 5 access the Internet or utilize Email via a seatback or tray table mounted interface and controller. The user may optionally connect a laptop computer to an interface port of the aircraft using an Ethernet, parallel, USB connection or proprietary connector provided by the air carrier. In the 10 preferred embodiment, the user would select the connection speed and type for communications based on whether in-flight or external services were to be accessed. Other types of business services may additionally be used and accounted for, such as using network printers or fax equipment. RF, 15 satellite or microwave based communications may be used for real time communications where sufficient geographical coverage is provided.

The interface would allow a user to login using the 20 frequent flyer account information or preferably, the trading server account login id and password, where the user may use points awarded from another air carrier or point server to "pay" for the services accessed. The account balance from the trading server may be transferred to the local controller 25 prior to takeoff for each user that logs in to the trading server. Once the plane has departed, depending on the linking or access capability afforded by the air carrier or service provider, the user's account may be modified in real time or upon reconnection following landing, based on services 30 selected by the traveler. If a real time link is supported,

the user's exchange account may be periodically debited according to the services selected and duration of use.

5 In another aspect of the invention, an electronic bartering system is implemented, wherein product manufacturers, producers, distributors, etc. can provide surplus or overstocked goods for liquidation into the chain of supply of the system and exchange them for points as described herein. This provides an inventory management and liquidation 10 system for these manufacturers and sellers.

15 In addition, the value of the reward points may fluctuate as a function of the company's performance, which may be measured by reference to the price of its stock, revenue, earnings, or some other parameter that is agreed to that reflects the relative performance of the company. In this manner, companies that perform well would provide an additional incentive to a user for using their frequent use 20 program rather than a competitor's program. For example, all other parameters being the same, a user would likely choose the Acme credit card company over the Beta credit card company when the user determines that the Acme company performance results in a 10% increase in the number of points otherwise earned by using its credit card. The value may also fluctuate 25 as a function of the number of points outstanding or the desirability of the issuer to reduce its liability or make it more robust.

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